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Type of Organization: Other

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Project Title: Nationwide / Worldwide Medical Geography Census

Project Category: Emerging Issues

Rank by Organization (if applicable): 0

Total Funding Requested (\$): 250,000 **Project Duration:** 2 Years

Abstract:

Nationwide/Worldwide Medical Geography Census
Linking Environmental Agents and Autoimmune Diseases

Numerous studies have been carried out to determine the possibility of environmental factors in the development of autoimmune disease. HLA associated autoimmune disorders such as Type 1 diabetes, sclerosis, or thyroiditis have been long associated with virus infections, and other environmental exposures. Type 1 diabetes indicate increased disease risks after either gestational or enterovirus infections, exposure to nitrate in food or low groundwater contaminated with zinc which would reflect long term exposure through drinking water. Further studies are needed to identify environmental triggers for autoimmune diseases. Identifying geographical areas where autoimmune disease is prevalent could help this. It is proposed that the Nationwide / Worldwide Medical Geography Census would serve as the most inclusive, accurate and inexpensive means of identifying those geographical areas where there is a high incident of autoimmune disease. The Nationwide / Worldwide Medical Geography Census would be a supplement to the ten-year census-starting year 2000 and would be in the form of a one to two page questionnaire sent out with the ten year census. This will make it possible to map out those areas that are affected. It is concluded that the Nationwide / Worldwide Medical Geography Census would allow concerted research to identify cellular, humoral and organism factors that are different in susceptible populations compares to the healthier population.

Geographic Areas Affected by the Project

States:

<input checked="" type="checkbox"/> Illinois	<input checked="" type="checkbox"/> New York
<input checked="" type="checkbox"/> Indiana	<input checked="" type="checkbox"/> Pennsylvania
<input checked="" type="checkbox"/> Michigan	<input checked="" type="checkbox"/> Wisconsin
<input checked="" type="checkbox"/> Minnesota	<input checked="" type="checkbox"/> Ohio

Lakes:

<input type="checkbox"/> Superior	<input type="checkbox"/> Erie
<input type="checkbox"/> Huron	<input type="checkbox"/> Ontario
<input type="checkbox"/> Michigan	<input checked="" type="checkbox"/> All Lakes

Geographic Initiatives:

<input checked="" type="checkbox"/> Greater Chicago	<input checked="" type="checkbox"/> NE Ohio	<input checked="" type="checkbox"/> NW Indiana	<input checked="" type="checkbox"/> SE Michigan	<input checked="" type="checkbox"/> Lake St. Clair
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Primary Affected Area of Concern: All AOCs

Other Affected Areas of Concern:

For Habitat Projects Only:

Primary Affected Biodiversity Investment Area:

Other Affected Biodiversity Investment Areas:

Problem Statement:

Toxins in water and soil triggering autoimmune diseases.

Proposed Work Outcome:

1. Promotion of the Nationwide / Worldwide Medical Geography Census.
2. Developing measures to determine additional toxins in drinking water, tap water, water resources, and soil.
3. Collaboration with medical geographers, toxicologists, epidemiologists, and health professionals.
4. Developing legislation to broadening testing measures for water and soil.
5. Proposing means of remediation once testing for toxins is complete.

Project Milestones:

Project Start

Dates:

06/2000

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Project End

06/2002

☒ Project Addresses Environmental Justice

If So, Description of How:

Contaminated water and soil.

☒ Project Addresses Education/Outreach

If So, Description of How:

Involving the public on proposed remediation for toxins once testing is complete.

Project Budget:**Federal Share Requested (\$)****Applicant's Share (\$)**

Personnel: 100,000

0

Fringe: 20,000

0

Travel: 25,000

0

Equipment: 35,000

0

Supplies: 30,000

0

Contracts: 0

0

Construction: 0

0

Other: 20,000

0

Total Direct Costs: 230,000

0

Indirect Costs: 20,000

0

Total: 250,000

0

Projected Income: 0

0

Funding by Other Organizations (Names, Amounts, Description of Commitments):

NONE

Description of Collaboration/Community Based Support:

Medical geographers, toxicologists, epidemiologists, legislators, remediation companies, and health professionals.